Translation

PATENT COOPERATION TREATY

PCT

L	REC'D	1	4	JUL	2004
L	WIPO				PCT

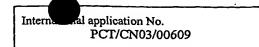
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

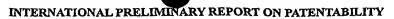
(PCT Article 36 and Rule 70)

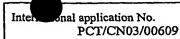
Applicant's or agent's file reference					
CPGNA30547			See Form PCT/IPEA/416		
International application No.	International filing	date (day/month/year)	Priority date (day/month/year)		
PCT/CN03/00609	29.Jul.20	003(29.07.2003)	02.Aug.2002(02.08.2002)		
International Patent Classification (IPC) or i	national classification	and IPC	3 ((2.00.2002)		
C07D 475/14 A61K 31/525 A61P	' 1/02, 1/04, 9/10,	9/12, 17/02, 19/02			
Applicant					
THE INSTITUTE OF RADIATION MEDI ARMY, ET AL	CINE, ACADEMY	OF MILITARY MEDICAL	L SCIENCES, PEOPLE'S LIBERATION		
This report is the international prelimin under Article 35 and transmitted to the	nary examination rep	ort, established by this Interr	national Preliminary Examining Authority		
2. This REPORT consists of a total of	4	sheets, including this	Cover short		
3. This report is also accompanied by AN	NEXES, comprising:	motuding this	COVER SHEET.		
 a. (sent to the applicant and to the International Bureau) a total of 11 sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). 					
the disclosure in the inter Box.	arlier sheets, but whi mational application	ch this Authority considers as filed, as indicated in iter	contain an amendment that goes beyond n 4 of Box No. I and the Supplemental		
b. (sent to the International Burea containing a sequence listing Supplemental Box Relating to					
4. This report contains indications relating	to the following iter	ns:			
Box No. I Basis of the repo					
Box No. II Priority					
Box No. III Non-establishmen	it of opinion with rec	ard to novelty, inventive step			
Box No. IV Lack of unity of in	nvention	to noverty, inventive step	and industrial applicability		
		with regard to novelty in	ntive step or industrial applicability;		
citations and explai	nations supporting su	ch statement	itive step or industrial applicability;		
Box No. VI Certain documents		on battornont	j		
	the international appl	ication			
	ons on the internation				
Date of submission of the demand					
29.Jul.2003(29.07.2003)		Date of completion of this r	•		
	j	22.Jun.	2004(22.06.2004)		
Name and mailing address of the IPEA/CN		Authorized officer	Ar II		
6 Xitucheng Rd., Jimen Bridge, Haidia 100088 Beijing, China	m District,		NG JING-HUA PAL EP EP		
acsimile No. 86-10-62019451		Telephone No. 86-10-620	85691		
m PCT/IPEA/409 (cover sheet) (January 200-	4)				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY



Box	No.	I I	Basis o	the report				
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 								
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:							
	international search (under Rules 12.3 and 23.1(b))							
	publication of the international application (under Rule 12.4)							
	international preliminary examination (under Rules 55.2 and/or 55.3)							
2.	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
		the i	interna	tional application as originally filed/furnished				
	\boxtimes	the	descrip	tion:				
			ges	10	41.1- 4.41-44	as originally filed/furnished		
		•	ges * ges *		this Authority on this Authority on	08.May.2004(08.05.2004)		
		pa	ges	received by	uns Audionty on			
	\boxtimes	the c	claims:					
			ges			as originally filed/furnished		
		_	ges *		mended (together wit by this Authority on	h any statement)under Article 19 08.May.2004(08.05.2004)		
			ges * iges *		by this Authority on	06.1VIay.2004(06.03.2004)		
	⊠	pa; pa;	drawing ges ges * ges *	1/2-2/2 received by	this Authority on this Authority on	as originally filed/furnished		
		a sec	quence	listing and/or any related table(s) - see Supplemental Box Re	elating to Sequence L	isting.		
3.		The		lments have resulted in the cancellation of:				
				claims, Nos.				
			_	drawings, sheets/figs				
] the	sequence listing (specify):				
] any	table(s) related to sequence listing (specify):				
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).								
			} the	description, pages				
			_	claims, Nos.				
] the	drawings, sheets/figs				
] the	requence listing (specific)		į.		
	any table(s) related to sequence listing (specify):							
	* If item 4 applies, some or all of those sheets may be marked "superseded."							

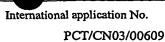




. Statement:			
Novelty (N)	Claims	1-12	YES
	Claims	NONE	мо
Inventive step (IS)	Claims	1-12	YES
·	Claims	NONE	ио
Industrial applicability (IA)	Claims	1-12	YES
	Claims	NONE	МО

claims 1 and 2 relate to riboflavin derivatives, claim 3 relates to riboflavin-5'-laurate, claims 4-5 relate to the processes for the preparation of riboflavin-5'-laurate, claims 6-8 relate to the oil suspended preparations of riboflavin-5'-laurate, claims 9-12 relate to the uses of riboflavin derivatives. The prior arts didn't describe the compounds of the present invention and their uses such as being applied for assistant treating dermatitis, mouth or enteron catarrh caused by bone marrow replanting in treating leucocythemia, chemotherapeutics or actinotheraphy in treating tumour. Therefore, the claims 1-12 meet PCT Article 33(2)—33(4).





					PCT/CN	03/00609	
Box No. VIII	Certain observation	s on the internation	nal application				
	g observations on the the description, are ma		s, description, and	l drawings or on	the question wheth	er the claims are fully	
Claim 2 doesn't meet PCT Article 6 for the groups of R ₁ , R ₂ , R ₃ and R ₄ in the claim haven't been defined.							
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1							